INTERNATIONAL SEARCH REPORT

Inten. ... d Application No PCT/IB2005/000482

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 G01D5/14 G01B7/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols) IPC 7 **G01D**

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

. DOCUM	ENTS CONSIDERED TO BE RELEVANT			
Category °	Citation of document, with indication, where appropriate, of t	Relevant to daim No.		
X	US 4 677 378 A (TOKURA ET AL) 30 June 1987 (1987-06-30)	1-3,7, 15-17		
Y	column 1, line 33 - column 7,	line 4	4-6, 12-14, 18,19	
A			8-11	
Y	US 5 237 861 A (SUDA ET AL) 24 August 1993 (1993-08-24)		4-6, 12-14, 18,19	
	column 2, line 16 - column 4,	line 17		
Υ	US 4 922 198 A (SANDHAGEN ET A 1 May 1990 (1990-05-01)	4-6, 12-14,		
	column 1, line 67 - column 4,	18,19		
		-/		
X Furti	her documents are listed in the continuation of box C.	Patent family members are	listed in annex.	
"A" docume consider a filing of the citation other a document of the citation of c	ent defining the general state of the art which is not dered to be of particular relevance document but published on or after the international date ent which may throw doubts on priority claim(s) or is cited to establish the publication date of another in or other special reason (as specified) ent referring to an oral disclosure, use, exhibition or means ent published prior to the international filing date but han the priority date claimed	 "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person sidiled in the art. "&" document member of the same patent family 		
Date of the	actual completion of the international search	Date of mailing of the internation	nal search report	
1	September 2005	08/09/2005		
Name and r	nailing address of the ISA European Patent Office, P.B. 5818 Patentiaan 2 NL – 2280 HV Rijswijk Tel (+31–70) 340–2040, Tx. 31 651 epo nl.	Authorized officer		
		-		

INTERNATIONAL SEARCH REPORT

Intern......al Application No PCT/IB2005/000482

	tion) DOCUMENTS CONSIDERED TO BE RELEVANT			
ategory °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.		
	US 4 916 825 A (BREYER ET AL) 17 April 1990 (1990-04-17) column 2, line 23 - column 6, line 17	1–19		
	EP 0 182 997 A (DR. JOHANNES HEIDENHAIN GMBH) 4 June 1986 (1986-06-04) page 2, line 20 - page 9, line 17	1-19		

INTERNATIONAL SEARCH REPORT

Information on patent family members

Intermediate Application No
PCT/IB2005/000482

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
US 4677378	Α	30-06-1987	JP	61180109 A	12-08-1986
US 5237861	Α	24-08-1993	JP	4076863 A	11-03-1992
US 4922198	Α	01-05-1990	DE	3902887 A1	24-08-1989
US 4916825	A .	17-04-1990	DE DE EP JP JP US	3728578 A1 3869696 D1 0304881 A1 1069910 A 2557956 B2 5024003 A	09-03-1989 07-05-1992 01-03-1989 15-03-1989 27-11-1996 18-06-1991
EP 0182997	A	04-06-1986	DE AT DE EP	3443133 C1 41514 T 3568866 D1 0182997 A1	27-02-1986 15-04-1989 20-04-1989 04-06-1986